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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

### Office Action Summary

**Application No.**

10/826,595

**Applicant(s)**

HOFFMAN ET AL.

**Examiner**

JASON M. SIMS

**Art Unit**

1631

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12/5/2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-6, 8, 9, 11-14, 16-23, 25-31, 33-40, and 42-51 is/are pending in the application.
- 4a) Of the above claim(s) 8, 9, 17, 25, 26, 34, 42, 43 and 51 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-6, 11-14, 16, 18-23, 27-31, 33, 35-40 and 44-50 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-848)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date \_\_\_\_\_
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_\_

### **DETAILED ACTION**

Applicant's arguments, filed 12/5/2008, have been fully considered. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Applicants have amended their claims, filed 12/5/2008, and therefore rejections newly made in the instant office action have been necessitated by amendment.

Claims 8-9, 17, 25-26, 34, 42-43, and 51 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected inventive group, there being no allowable generic or linking claim. Election was made **without** traverse in the reply filed on 11/13/2006.

Applicant's cancellation of claims 7 and 10 in the response filed 12/5/2008 has been acknowledged and entered.

Claims 1-6, 11-14, 16, 18-23, 27-31, 33, 35-40, and 44-50 are the current claims hereby under examination.

***The following rejection is being newly applied, which has been necessitated by amendment:***

#### ***Claim Rejections - 35 USC § 112***

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 1-6, 11-14, and 16 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Claims 1 (and all claims dependent therefrom) comprise the amended step (b) "utilizing the patient identifier and the proper authorization to access a second data set within the EMR of the person stored within a comprehensive healthcare system," which has been deemed as new matter. Applicant has pointed to paragraph [0037] for support for said claim amendment. Support has not been found at said paragraph [0037]. Support for requiring authorization to "access particular patient information," such as "an electronic medical record" or "a patient based data structure that may be stored any of a number of manners associating a genetic test result value to the patient" is found. However, said paragraph does not support utilizing "proper authorization to access a second data set within the EMR of the person stored within a comprehensive healthcare system."

### ***Claim Rejections - 35 USC § 102***

#### ***Response to Arguments:***

Applicant's arguments with respect to the rejection of claims under 35 USC 102 have been considered but are moot in view of the new ground(s) of rejection.

However, with regards to Applicant's arguments filed 12/5/2008 and the Hogan reference not having priority dating back to July 11, 2000, have been fully considered but they are not persuasive.

Applicant argues that the Hogan reference, paragraphs [0148] – [0150] do not have support in the parent application number 09/981,248.

Applicant's arguments are not found persuasive as the subject matter covered in paragraphs [0148] - [0150] discusses using genomic profiling in subsequence steps such as a therapeutic plan and surgery and recovery.

The Hogan reference's parent application specification at page 4, supports said subject matter as it discusses obtaining a genomic profile, "wherein the conditions for the procedure are based on the genomic profile," wherein the procedure refers to a surgical procedure, which includes plans for therapy, surgery and recovery.

Applicant further argues that subject matter in paragraphs [0208] – [0216] are not supported in the parent application.

Applicant's arguments are not found persuasive because the subject matter found at said paragraphs discusses genomic profiling using methods such as INVADER. Said parent application at pages 39-41 and 47 discusses the same INVADER technology used for genomic profiling. Therefore, support in the parent application is well established and priority of said parent application of 7/11/2000 is fully supported.

***Claim Rejections - 35 USC § 103-modified***

***Response to Arguments:***

Applicant's arguments with respect to the rejection of claims under 35 USC 103 have been considered but are moot in view of the new ground(s) of rejection.

***The following rejection has been modified, which has been necessitated by amendment:***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, 11-14, 16, 18-23, 27-31, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hogan (US A/N 2002/0110823).

The claims are directed to a computer-implemented method for displaying a warning that a clinical agent received from a clinician should not be administered to a person, comprising the steps of:

receiving from a clinician clinical agent information, the clinical agent information including an identifier of a specific clinical agent;

determining if a gene is associated with the clinical agent by comparing the identifier of the clinical agent received from the clinician to a first data set containing agent-gene associations.

when a gene is associated with the clinical agent, automatically obtaining a genetic test result value for the associated gene of the person, wherein

automatically obtaining comprises:

(a) receiving a patient identifier of the person to whom the clinical agent is to be administered and proper authorization to access an electronic medical record (EMR) of the person; and

(b) utilizing the patient identifier and the proper authorization to access a second data set within the EMR of the person stored within a comprehensive healthcare system;

comparing the genetic test result value to a second data set containing one or more polymorphism values associated with one or more polymorphism values with one or more atypical clinical events for the clinical agent; and

determining whether the genetic test result value correlates to one or more of the one or more polymorphism values contained in the second data set, and if so, displaying a warning to the clinician agent received from the clinician should not be administered, and recording an indication of the warning in the EMR of the person.

Hogan teaches limitations of claims 1, 18 and 35 as follows: Hogan at the abstract discusses a method for tailoring a subject's surgical treatment to reflect genetic information. Hogan at paragraph [0005] discusses that the choice of anesthetic regimen, agent, and dose depends on the type of surgery or procedure. Therefore, it is implied that with planning a surgery a clinician will plan for the appropriate clinical agent, i.e. anesthesia drug, to be administered during the surgery, which reads on the first method step, receiving from a clinician clinical agent information, the clinical agent information including an identifier of a specific clinical agent. Hogan at paragraphs [0007] – [0009] discusses how certain genes are associated with particular anesthetic drugs. Hogan at Figs. 4 and 5 describes data sets that comprise genes, alleles and associations with particular clinical agents. Therefore, it is implied that when determining if a gene is associated with a particular clinical agent that it is through comparing the identifier of the clinical agent to a data set comprising agent-gene associations. Hogan teaches at paragraphs [0011] – [0013] discusses genomic screening of a subject prior or during a surgical procedure to obtain a genomic profile, which reads on the second step of determining if a gene is associated with the clinical agent by comparing the identifier of the clinical agent received from the clinician to a first data set containing agent-gene associations, and if a gene is associated with the clinical agent, obtaining a genetic test result value for the associated gene of the person. Hogan at paragraphs [0019] – [0022] discusses obtaining a genomic profile for a subject which screens the subject for one or more polymorphism values associated with one or more clinical events associated with one or more clinical agents. It is



implied that the genomic profile result values are compared with a data set comprised of genes and alleles associated with clinical agents and events, such as in Figs. 4 and 5, which reads on the third method step comparing the genetic test result value to a second data set containing one or more polymorphism values associated with one or more polymorphism values with one or more atypical clinical events for the clinical agent. Hogan at paragraphs [0018] and [0019] discusses screening a patient to determine a risk for surgical complications associated with known genetic variations. Furthermore, Hogan at paragraph [0190] discusses that the risk assessment for the various treatment options are displayed to the clinician on a computer monitor, which reads on the final method step of determining whether the genetic test result value correlates to one or more of the one or more polymorphism values contained in the second data set, and if so, displaying a warning to the clinician agent received from the clinician should not be administered. Moreover, Hogan at paragraphs [0189] – [0193] discusses the use of computers for performing the instant invention, all of which imply the use of computer programs and components for performing the instant method steps as in claim 18.

With respect to claim 1: Hogan suggests, but does not explicitly teach the amended steps of claim 1 of, automatically obtaining comprises:

(a) receiving a patient identifier of the person to whom the clinical agent is to be administered and proper authorization to access an electronic medical record (EMR) of the person; and

(b) utilizing the patient identifier and the proper authorization to access a second data set within the EMR of the person stored within a comprehensive healthcare system.

Hogan suggests this because at paragraphs [0187] – [0195], Hogan teaches that a central processing facility where the genomic profiling data is stored provides the advantage of privacy, wherein privacy implies security and authorizing access to data. Hogan further teaches specifically at paragraph [0193] that the subject, i.e. patient, can determine the fate of the genomic profiling data. Furthermore, Hogan teaches at paragraph [0187] conditions for performing genomic profiling on a patient, wherein a patient would need to provide a genomic sample, which implies a patient giving an identifier, i.e. their name, and permission for a sample. In addition, Hogan at paragraph [0187] teaches information generated by perioperative genomic profiling is automated. Therefore, Hogan discusses the automation of processing information and the use of genomic profiling for determining or influencing a surgical plan.

It would have been obvious to one of ordinary skill in the art at the time of the invention to have automatically obtained based on proper authorization, access to an electronic medical record to access a genetic test result value if available for use in the invention taught by Hogan. This is because Hogan teaches an invention for using a patient's genomic profile to provide the best surgical plan, which includes administration of an anesthetic drug, wherein a test result may influence the surgical plan. Genomic profiling can be an expensive test as discussed by Hogan. Therefore, one of ordinary skill in the art could have pursued known potential solutions, i.e. automating a method of

first checking a patient's medical record to first see if a genomic profile has been performed, with a reasonable expectation of success. One of ordinary skill in the art could have applied the known technique in the same way to the "base" method and the results would have been predictable, i.e. more cost effective in the case where a genomic profile had already been made. Hogan at the background and paragraphs [0030] – [0034] discuss the cost-effectiveness and importance of it when performing perioperative testing of patients.

With regards to the amendments of claim 18, Hogan suggests, but does not explicitly teach "when the clinical agent is not associated with a gene from the first data set, the first determining component approves administration of the clinical agent.

Hogan suggests this because Hogan at paragraphs [0030] – [0034] discuss the cost-effectiveness of performing perioperative tests, i.e. genomic profiling. Furthermore, at paragraphs [0119] – [0127] Hogan teaches that only markers that correlate with a subject's response or ones that can provide effective and helpful information are included in obtaining a genomic profile.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the instant invention to have approved the administration of a clinical agent if the agent is not associated with a gene from a data set known to be associated with the agent. This is because Hogan teaches the need to perform effective testing wherein only markers for which a lot of data is available and known are selected. Hogan further teaches, such as at paragraph [0129] that markers may be subtracted from screening, which are known to not influence the patient. Thus it is implied from the teaching of

Hogan, that if an agent is not associated with a gene from a known data set, that the administration of the agent would be approved. The invention of Hogan teaches to screen in a cost-effective way for approvable agents for administration. Hogan further teaches using markers for which a lot of data is known. Therefore, if no known gene was associated with an agent, it would be implied that the agent would be approved from the teachings of Hogan. A person of ordinary skill in the art has good reason to pursue the known options within his or her technical grasp, which would lead to the anticipated success, thus the amended step is the product not of innovation, but of ordinary skill and common sense.

Hogan at paragraphs [0005], [0008], and [0138] discusses assessing the dosages associated with the clinical agents and risk assessments as in claims 2, and 19.

Hogan at paragraphs [0186] and [0188] – [0193] discusses that the clinical agent and genetic information may be stored and communicated via various computerized applications, including electronic medical records including computers, which reads on claims 3, 10, 20, and 27.

Hogan at paragraph [0031] – [0033] discusses a problem is “how to alter treatment course of action in response to results,” as in genomic screening results and the present invention unites “medicine with genetics” to solve the described problem and to individualize treatment options for each subject. The genomic screening and obtaining genomic profiles and Figs. 4 and 5 disclosed as examples of data sets comprising gene and allele associations with clinical agents implies a querying to

determine if a gene is associated with a planned-to-be-administered clinical agent as in claims 4, 5, 21, and 22.

Hogan at paragraphs [0190] – [0191] teaches outputting information about the atypical clinical event associated with the polymorphism values such that a “clinical action” may be initiated as recited in claims 6, 13, and 23.

Hogan at paragraph [0190] discusses that the risk assessment for the various treatment options are displayed to the clinician on a computer monitor, which reads on a warning that particular agents should not be administered as in claim 7.

Hogan at Fig. 4, discloses an example of a data set which includes information about risks associated with the atypical clinical events. Furthermore, at paragraphs [0115], [0129], [0136] – [0147], and [0186] teaches comparing genetic test result values for multiple genes to polymorphoism values associated with adverse reactions, i.e. risks associated with atypical clinical events, and that agent information may include dosage and other PK/PD parameters as in claims 12, 13, 16, 29, 30, and 33.

Hogan does not explicitly teach a method wherein the data sets of agent-gene associations may be updated as in claims 11 and 28.

Hogan at Fig. 2 describes in the analysis step of comparing genomic profile values to gene-agent association data that research data may be included in a data set used for comparison.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use data sets that may be updated. This is because it is a goal of the instant invention to tailor surgery treatments to subjects using genomic profiles and

data, wherein it is implied that using the most updated genomic data available causes the instant invention to be used in its most opportunistic way. Therefore, it is implied that the gene-agent association data sets used are data sets that are updated as is also the nature of research, to update the current information existing in the field.

Hogan does not explicitly teach a method wherein the data sets are incorporated into a single data set as in claims 14 and 31.

However, it would have been obvious to one of ordinary skill in the art at the time of the instant invention to have used combined data sets as it can be a more efficient means for comparing data and easier for visually comparing or looking up information such as gene-agent information. Furthermore, it is a common goal of researchers to consolidate the most updated information into single sources of data, wherein combining the most up to date information on gene-agent associations into a single source such as a single data set would be in line with research goals. Therefore, using a single source of data such as a single data set would be more efficient for determining risk assessments based on gene-agent associations.

***The following rejection is being newly applied, which has been necessitated by amendment:***

Claims 35-40, 44-50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hogan (US A/N 2002/0110823) as applied to claims 1 and 18 above, and further in view of Classen (US P/N 6,219,674).

Hogan teaches limitations of claim 35, which overlap with claims 1 and 18 as discussed above in the instant office action.

With regards to amendments of claim 35: Hogan suggests, but does not explicitly teach the amended claim step of:

"when the genetic test result value cannot be obtained, calculating the likelihood that the person displays a genetic mutation linked to the gene associated with the clinical agent based on demographic information associated with the person or genetic variability of the gene within the general population and constructing a message to communicate the calculated likelihood of the genetic mutation and any atypical clinical events that are associated therewith."

Hogan suggests this because Hogan teaches an invention directed to a cost-effective way of determining risk of a patient for surgical complications. Hogan further teaches at paragraph [0013] the different factors are included in a genomic profile for determining the risk, such as information pertaining to differential diagnosis of recognized co-existing disease, information pertaining to pharmacokinetic and pharmacodynamic risks. Although Hogan's invention is directed to determining risk based on a genetic test result value, Hogan suggests using other information for said determination of risk as stated above.

Classen teaches at the abstract and cols. 1-5 storing adverse event data for drugs in a database. Classen teaches at col. 5- col. 6 that extracted data can be analyzed to calculate risk for an individual wherein the data of an individual is compared to the same persons with similar characteristics before receiving the medical product.

Classen teaches at col. 6, lines 13-17 wherein the characteristics are those such as race and genetic characteristics. Therefore, the use of similar race information and genetic characteristics in order to determine risk for an adverse event for a particular drug reads on calculating the likelihood that the person has a mutation linked to gene associated with the clinical agent based on demographic information.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to have used the database and methods for assessing risk based on demographic data as taught by Classen with the method taught by Hogan. This is because Hogan teaches an invention directed to determining risk based on an obtained genomic profile. Hogan teaches calculating risk based on a genomic profile. It would be implicit that if a genomic test result value cannot be obtained that other information would be used, such as population data. Hogan teach at paragraph [0006] that at-risk patients have been identified by a family history and at paragraph [0031] that other information has been used for calculating risk. It would have been obvious to one of ordinary skill in the art that when a genomic profile is not obtainable that determining risk of a patient based on other information can still be beneficial as taught by Hogan. Therefore, it would have been obvious to one of skill in the art to use an updated adverse event database populated with correlated demographic data in order to determine risk when a genomic profile or genetic test result is not obtainable. The use of other information for determining risk was recognized as part of the ordinary capabilities of one skill in the art. One of ordinary skill in the art would have been capable of applying this known technique to the known method taught by Hogan that



was ready for improvement and the results would have been predictable to one of ordinary skill in the art.

Hogan at paragraphs [0005], [0008], and [0138] discusses assessing the dosages associated with the clinical agents and risk assessments as in claim 36.

Hogan at paragraphs [0186] and [0188] – [0193] discusses that the clinical agent and genetic information may be stored and communicated via various computerized applications, including electronic medical records including computers, which reads on claims 37 and 44.

Hogan at paragraph [0031] – [0033] discusses a problem is “how to alter treatment course of action in response to results,” as in genomic screening results and the present invention unites “medicine with genetics” to solve the described problem and to individualize treatment options for each subject. The genomic screening and obtaining genomic profiles and Figs. 4 and 5 disclosed as examples of data sets comprising gene and allele associations with clinical agents implies a querying to determine if a gene is associated with a planned-to-be-administered clinical agent as in claims 38, and 39.

Hogan at paragraphs [0190] – [0191] teaches outputting information about the atypical clinical event associated with the polymorphism values such that a “clinical action” may be initiated as recited in claims 40 and 47.

Hogan at Fig. 4, discloses an example of a data set which includes information about risks associated with the atypical clinical events. Furthermore, at paragraphs [0115], [0129], [0136] – [0147], and [0186] teaches comparing genetic test result values

for multiple genes to polymorphoism values associated with adverse reactions, i.e. risks associated with atypical clinical events, and that agent information may include dosage and other PK/PD parameters as in claims 46 and 50.

Hogan does not explicitly teach a method wherein the data sets of agent-gene associations may be updated as in claim 45.

Hogan at Fig. 2 describes in the analysis step of comparing genomic profile values to gene-agent association data that research data may be included in a data set used for comparison.

It would have been obvious to one of ordinary skill in the art at the time of the instant invention to use data sets that may be updated. This is because it is a goal of the instant invention to tailor surgery treatments to subjects using genomic profiles and data, wherein it is implied that using the most updated genomic data available causes the instant invention to be used in its most opportunistic way. Therefore, it is implied that the gene-agent association data sets used are data sets that are updated as is also the nature of research, to update the current information existing in the field.

Hogan does not explicitly teach a method wherein the data sets are incorporated into a single data set as in claim 48.

However, it would have been obvious to one of ordinary skill in the art at the time of the instant invention to have used combined data sets as it can be a more efficient means for comparing data and easier for visually comparing or looking up information such as gene-agent information. Furthermore, it is a common goal of researchers to consolidate the most updated information into single sources of data, wherein

combining the most up to date information on gene-agent associations into a single source such as a single data set would be in line with research goals. Therefore, using a single source of data such as a single data set would be more efficient for determining risk assessments based on gene-agent associations.

Hogan at paragraph [0190] discusses that the risk assessment for the various treatment options are displayed to the clinician on a computer monitor, which reads on claim 49.

### ***Conclusion***

No claim is allowed.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jason Sims, whose telephone number is (571)-272-7540.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Marjorie Moran can be reached via telephone (571)-272-0720.

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the Central PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central PTO Fax Center number is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

// Jason Sims //

/Michael Borin/  
Primary Examiner, Art Unit 1631